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# Photochemical immobilization of heparin, dermatan sulphate, dextran sulphate and endothelial cell surface heparan sulphate onto cellulose membranes for the preparation of athrombogenic and antithrombogenic polymers

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**Abstract**

Heparin (HE), dextran sulphate (DX) of molecular weight 40000 and 500000, dermatan sulphate (DS) and endothelial cell surface heparan sulphate (ES-HS) were immobilized covalently onto cellulose membranes (Visking® dialysis tubes) using the photochemical heterobifunctional reagent 4-azido-1-fluoro-2-nitrobenzene (AFNB); 120pmol HE/cm<sup>2</sup> and 40pmol DS/cm<sup>2</sup>, 3.4pmol DX 500000/cm<sup>2</sup>, 50pmol DX 40000/cm<sup>2</sup> and 3.6pmol ES-HS/cm<sup>2</sup> were immobilized. The platelet adhesion of the modified membranes was measured in a modified Baumgartner perfusion chamber with citrated human blood at a defined shear rate. Membranes modified with DX 40000 and DX 500000 showed 80% and 30% platelet adhesion, respectively, heparinized and DS coated membranes showed 50% and 60% platelet adhesion,

respectively, compared with a subendothelial matrix (100% platelet adhesion). ES-HS modified membranes showed no platelet adhesion. *Biomaterials* (1994) **15**, (13) 1043–1048

**Author Keywords:** Immobilization; photosensitive heterobifunctional crosslinking reagent; heparin; ES-HS; platelet adhesion test

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